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APPLICATION NO.	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/779,873	02/18/2004	Casey K. Lee	A-9859A	9492
181	7590 10/05/2005		EXAMINER	
MILES & STOCKBRIDGE PC			REIMERS, ANNETTE R	
1751 PINNA(CLE DRIVE			·
SUITE 500			ART UNIT	PAPER NUMBER
MCLEAN, V	'A 22102-3833		3732	•
			DATE MAIL ED. 10/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			Sp
	Application No.	Applicant(s)	
	10/779,873	LEE, CASEY K.	
Office Action Summary	Examiner	Art Unit	
	Annette R. Reimers	3732	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this com D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>26 At</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		merits is
Disposition of Claims			
4) Claim(s) 1-76 is/are pending in the application. 4a) Of the above claim(s) 1-32,41 and 59-76 is/ 5) Claim(s) is/are allowed. 6) Claim(s) 33-40 and 42-58 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	are withdrawn from consideration	n.	·
Application Papers			
 9) The specification is objected to by the Examine 10) The drawing(s) filed on 11 August 2004 is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 	a)⊠ accepted or b)□ objected t drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFF	
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National S	tage
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/18/04/26/05, 9/36/05	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	152)

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Invention II, (Claims 33-76), and Species II, (Figure 16) /Subspecies I (Figures 6-11 and 16) in the reply filed on August 26, 2005 is acknowledged.

Examiner further acknowledges that applicant believes that claims 33-40 and 42-58 read on the elected species, Species II, (Figure 16) /Subspecies I (Figures 6-11 and 16). Examiner agrees with applicant regarding all of the claims.

Claims 1-32, 41 and 59-76 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on August 26, 2005.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 50 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter, which the applicant regards as the invention.

In claim 50, line 3, "said dome" lacks proper antecedent basis.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 33-35, 38-39, 42-44, 46, 50-51 57-58 are rejected under 35 U.S.C. 102(e) as being anticipated by Huang (U.S. Patent Number 6,893,465).

Huang discloses a total prosthesis for replacing the entire human intervertebral disk with a polymer core, 3, comprising an annulus, 35, surrounding a central cavity the annulus having upper and lower and side surfaces and made of a first biocompatible material and being shaped and sized to approximate the annulus fibrosus of a natural intervertebral disk, the first biocompatible material being an elastomer having a elastic modulus approximating that of the annulus fibrosus of the natural human intervertebral disk, upper and lower transitional plates, 13 and 23, affixed lower surfaces of the annulus the upper and lower transitional plates being made of a second biocompatible material having a durometer hardness respectively to the upper and greater than that of the first biocompatible polymer and upper and lower endplates, 12 and 22, adapted to contact adjacent vertebrae and affixed respectively to the upper and lower transitional plates (see figure 1 and column 3, lines 66-67, and column 4, lines 1-67).

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Each of the endplates has an inner surface shaped to contact the outer surface of said transitional plate and each of the endplates has a projection at a posterior edge shaped to form a groove for receiving a posterior edge of a of transition plate (see figure 1). Furthermore, each of the transition plates are molded to said upper and lower surfaces of the annulus (see figure 1). The cavity is filled with an incompressible liquid (see column 3, lines 49-51). An outer surface of at least one of said endplates is provided with a surface texture adapted for bone ingrowth and at least one of the endplates is provided with a fin, 121, upstanding from the outer surface and extending away from said anterior edge along a lateral midline of the outer surface (see figure 1 and column 2, lines 49-53).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 36-37, 40, 45, 47-49, 53-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (U.S. Patent Number 6,893,465).

Haung discloses the claimed invention except for first and second elastomeric synthetic polymer having a durometer hardness in a range of about Shore A70 to about Shore A90 and Shore Al00 to about Shore D65, respectively, a first elastomeric synthetic polymer having an e-value in a range of about 3-16 megapascals, a cavity having an e-value of about 1-4 megapascals, transition plates have thickness dimension

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at anterior and posterior edges of about 4-7 mm and 1-3 mm, respectively, the upper and lower endplates having a maximum depth of curvature of about 1.5-2.5 mm and 0.6-2.0 mm, respectively, and the maximum depth of curvature being located at a point spaced from an anterior edge of said endplate by a distance of about 60% of an anteroposterior diameter of said endplate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Huang with all of these features, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Regarding claims 47 and 52, i.e. the transition plates being dome shaped, it would have been an obvious matter of design choice to one skilled in the art at the time the invention was made to construct the device of Haung with the transition plates being dome shaped applicant has not disclosed that the transition plates being dome shaped solves any stated problem or is anything more than one of numerous shapes or configurations a person ordinary skill in the art would find obvious for the purpose of providing a transition plate for a prosthesis. In re Dailey and Eilers, 149 USPQ 47 (1966).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO 892 for art cited of interest.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Annette R. Reimers whose telephone number is (571) 272-7135. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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EDUARDO C. ROBERT PRIMARY EXAMINER